



HIV/AIDS in the Maryland Portion of the Washington Metropolitan Area: An Epidemiological Profile

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IDEHA Mission

- To improve the health of Marylanders by reducing the transmission of infectious diseases, helping impacted persons live longer, healthier lives, and protecting individuals and communities from environmental health hazards
- We work in partnership with local health departments, providers, community based organizations, and public and private sector agencies to provide public health leadership in the prevention, control, monitoring, and treatment of infectious diseases and environmental health hazards.



Outline



- History
- National Data
- State Data
- Regional Data
- Regional Summary



History



MMWR

June 5, 1981 / 30(21);250-2



Pneumocystis Pneumonia – Los Angeles

In the period October 1980-May 1981, 5 young men, all active homosexuals, were treated for biopsy-confirmed *Pneumocystis carinii* pneumonia at 3 different hospitals in Los Angeles, California. Two of the patients died. All 5 patients had laboratory-confirmed previous or current cytomegalovirus (CMV) infection and candidal mucosal infection. Case reports of these patients follow.



MMWR



July 4, 1981 / 30(21);305-8

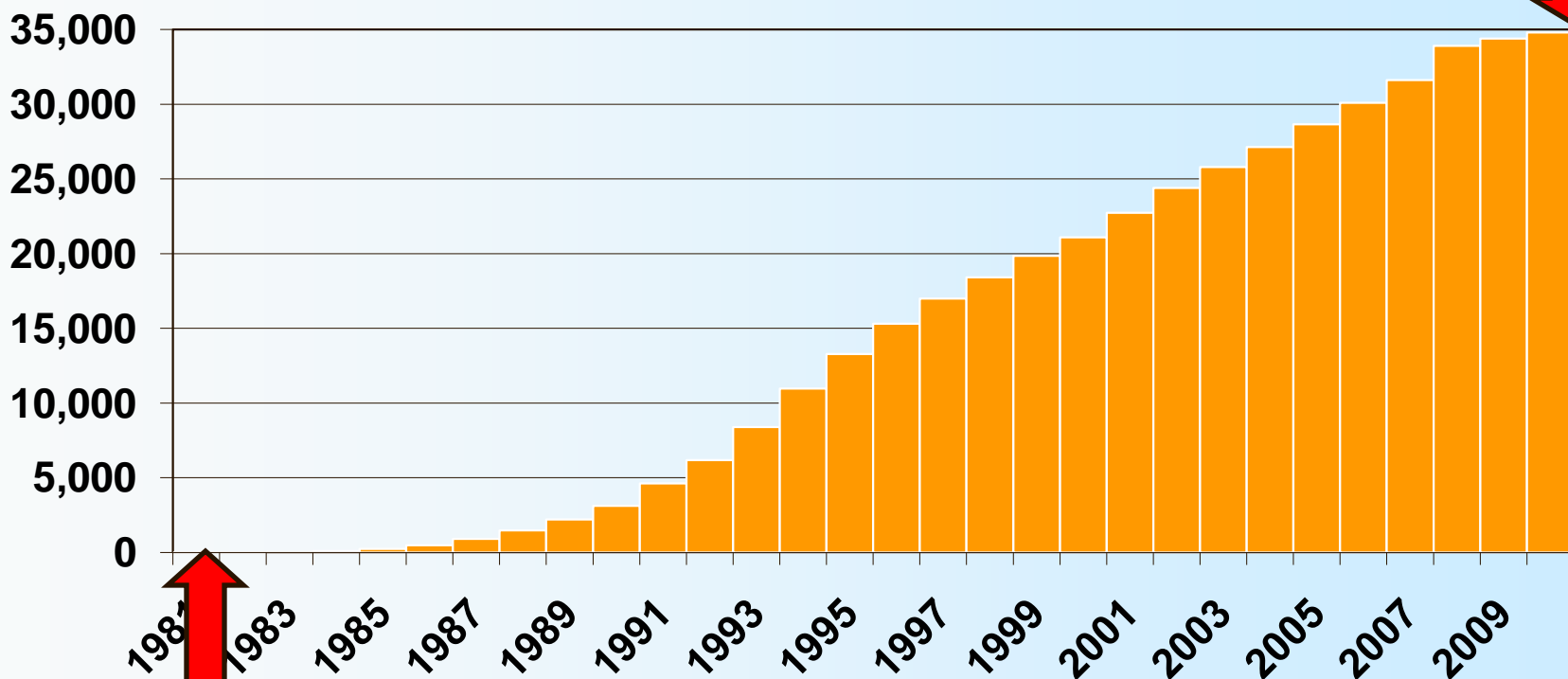
Kaposi's Sarcoma and *Pneumocystis* Pneumonia Among Homosexual Men – New York City and California

During the past 30 months, Kaposi's sarcoma (KS), an uncommonly reported malignancy in the United States, has been diagnosed in 26 homosexual men (20 in New York City [NYC], 6 in California). The 26 patients range in age from 26-51 years (mean 39 years). Eight of these patients died (7 in NYC, 1 in California)—all 8 within 24 months after KS was diagnosed.



Maryland AIDS Case Reports

34,809 Cases by December 31, 2010



First Case October 1981





National Data



U.S. HIV/AIDS Prevalence



- At the end of 2006, an estimated 1.1 million Americans were infected with HIV
- It is also estimated that 21% of the infected were undiagnosed
 - CDC. Morbidity and Mortality Weekly Report; October 3, 2008; 57:1073-6. Atlanta.



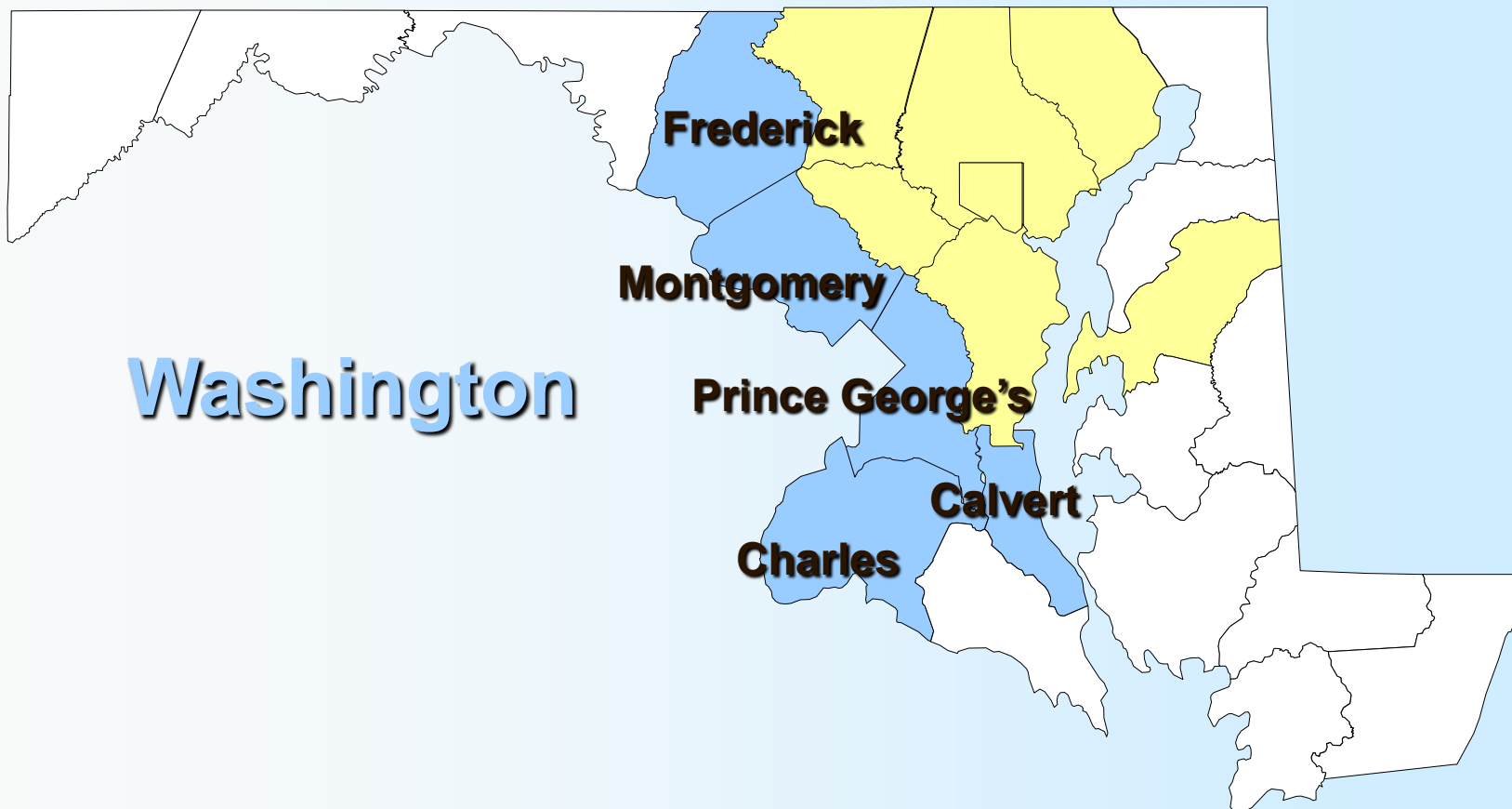
2009 Estimated AIDS Diagnoses, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia	718	119.8
2. New York	4,799	24.6
3. Florida	4,392	23.7
4. Maryland	1,134	19.9
5. Louisiana	869	19.4
6. Puerto Rico	735	18.5
7. Delaware	159	18.0
8. New Jersey	1,475	16.9
9. South Carolina	713	15.6
10. Georgia	1,391	14.1
<hr/>		
<i>United States</i>	<i>34,993</i>	<i>11.2</i>



Maryland Ryan White Eligible Metropolitan Areas

Baltimore-Towson





2009 Estimated AIDS Diagnoses, Ranked by Rates

<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1 Miami, FL	2,061	37.2
2. Baton Rouge, LA	241	30.6
3. Jacksonville, FL	387	29.1
4. New York, NY-NJ-PA	5,153	27.0
5. Washington, DC-VA-MD-WV	1,455	26.6
6. Columbia, SC	175	23.5
7. Memphis, TN-MS-AR	305	23.3
8. Orlando, FL	485	23.3
9. New Orleans-Metairie-Kenner, LA	274	23.0
10. Baltimore-Towson, MD	614	22.8
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<i>United States</i>	<i>34,981</i>	<i>11.2</i>



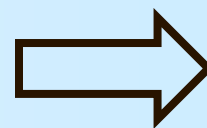
State Data



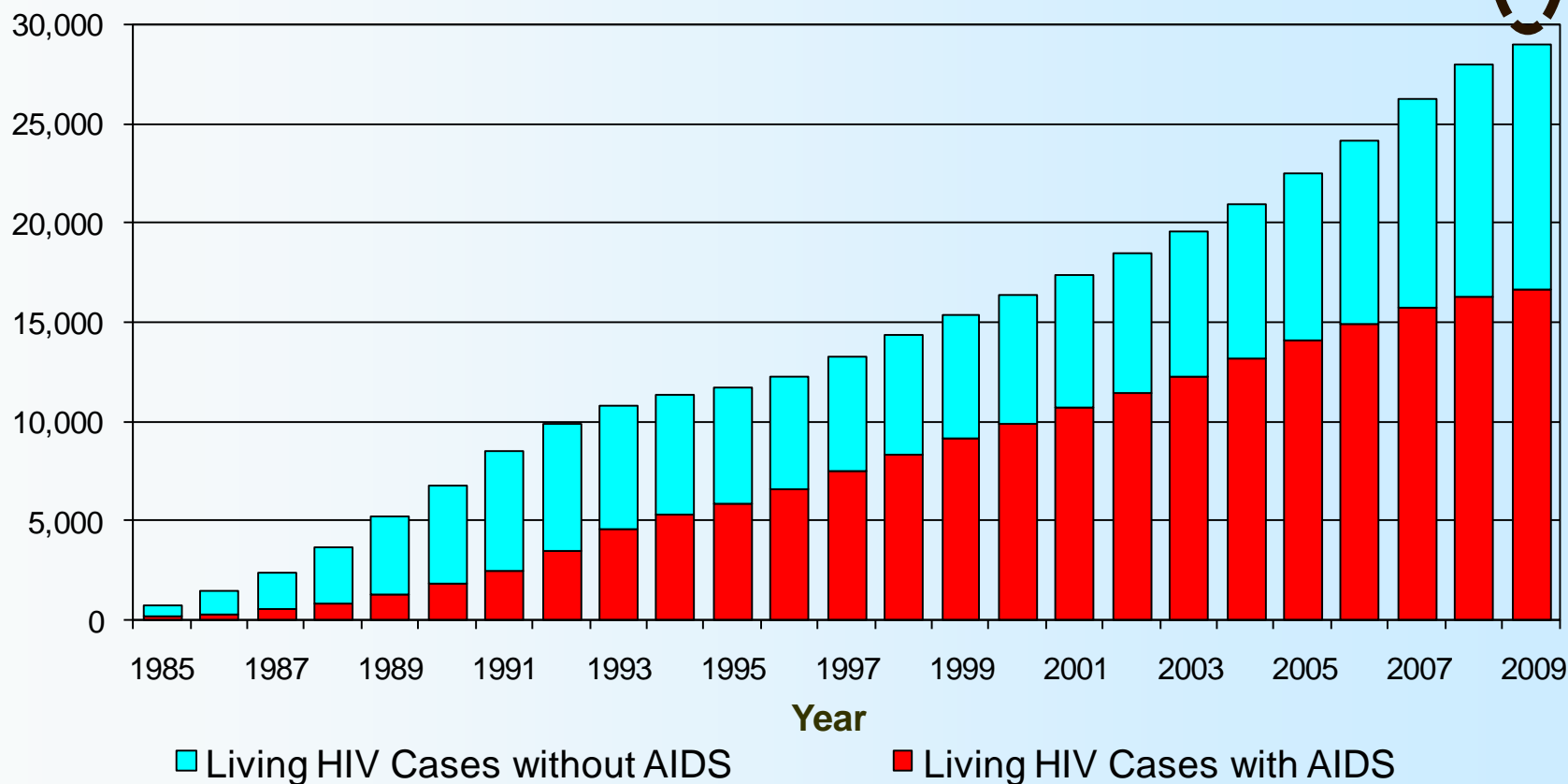
Maryland Living HIV Cases



+21% Undiagnosed?



Number of Cases



Using data as reported through 12/31/2010

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Maryland HIV/AIDS Statistics



Reported Diagnoses (during 2009)	No.	per 100,000	1 in X
HIV	1,521	26.7	
AIDS	692	12.1	

Living Cases (on 12/31/09)

HIV without AIDS	12,373	217.1	
HIV with AIDS	16,707	293.1	

Total HIV	29,080	510.2	196
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Cumulative (through 12/31/10)

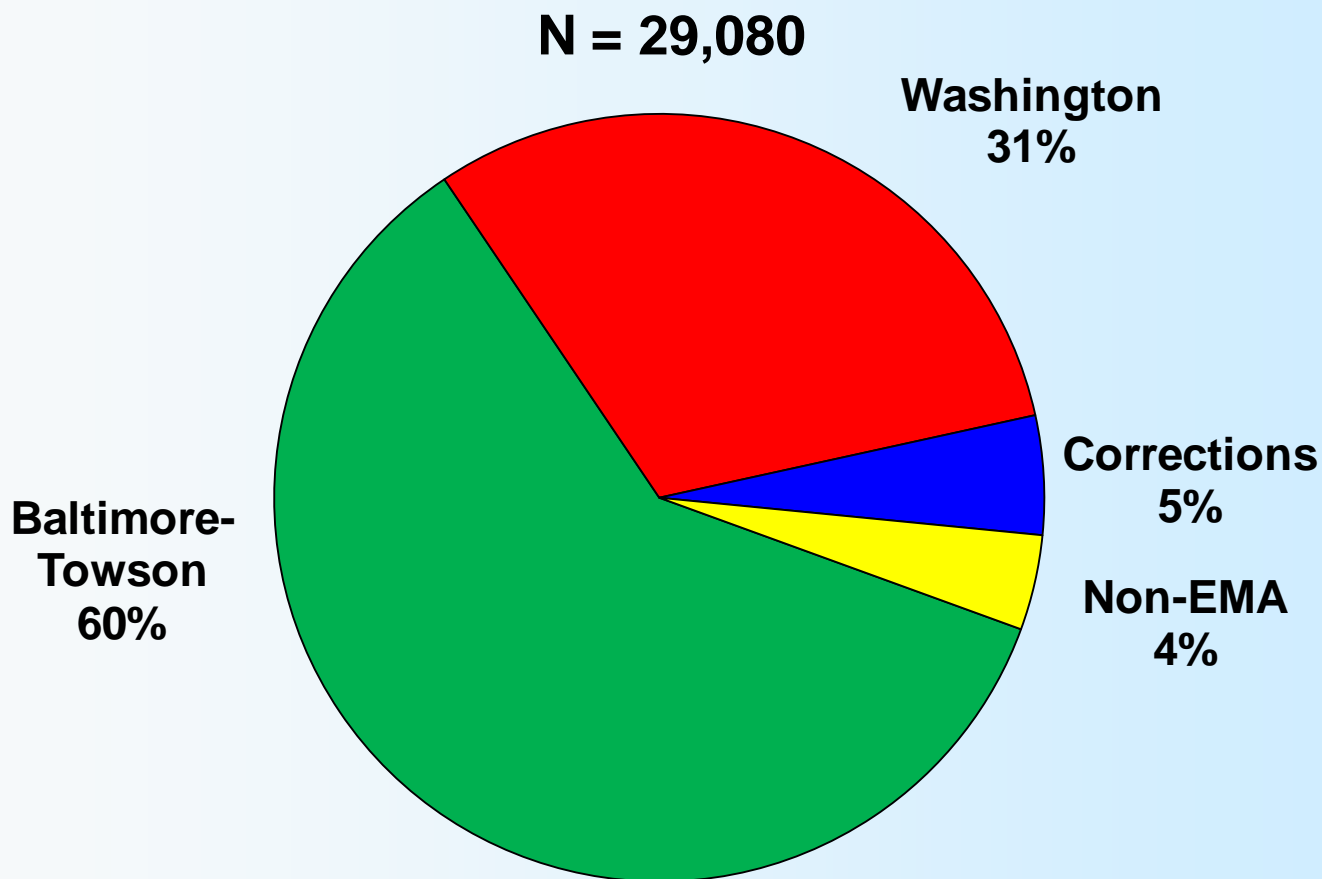
Total HIV	48,812		
HIV with AIDS	34,809	(71.3% of HIV)	

AIDS Deaths	17,741	(51.0% of AIDS)	
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Maryland Living HIV Cases by EMA, 12/31/09



Using data as reported through 12/31/2010



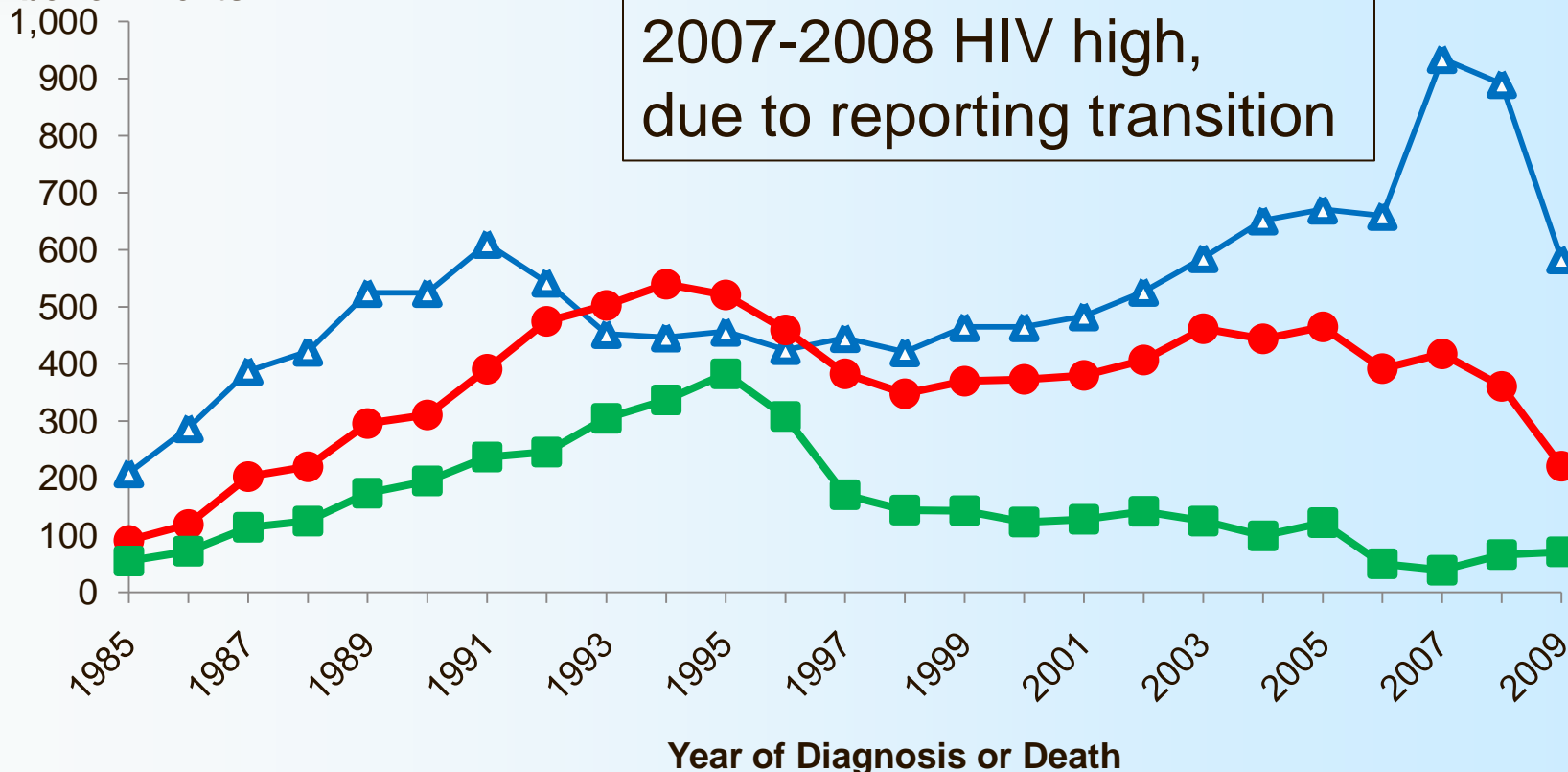
Regional Data



HIV/AIDS Trends Washington MSA (MD)



Number of Events



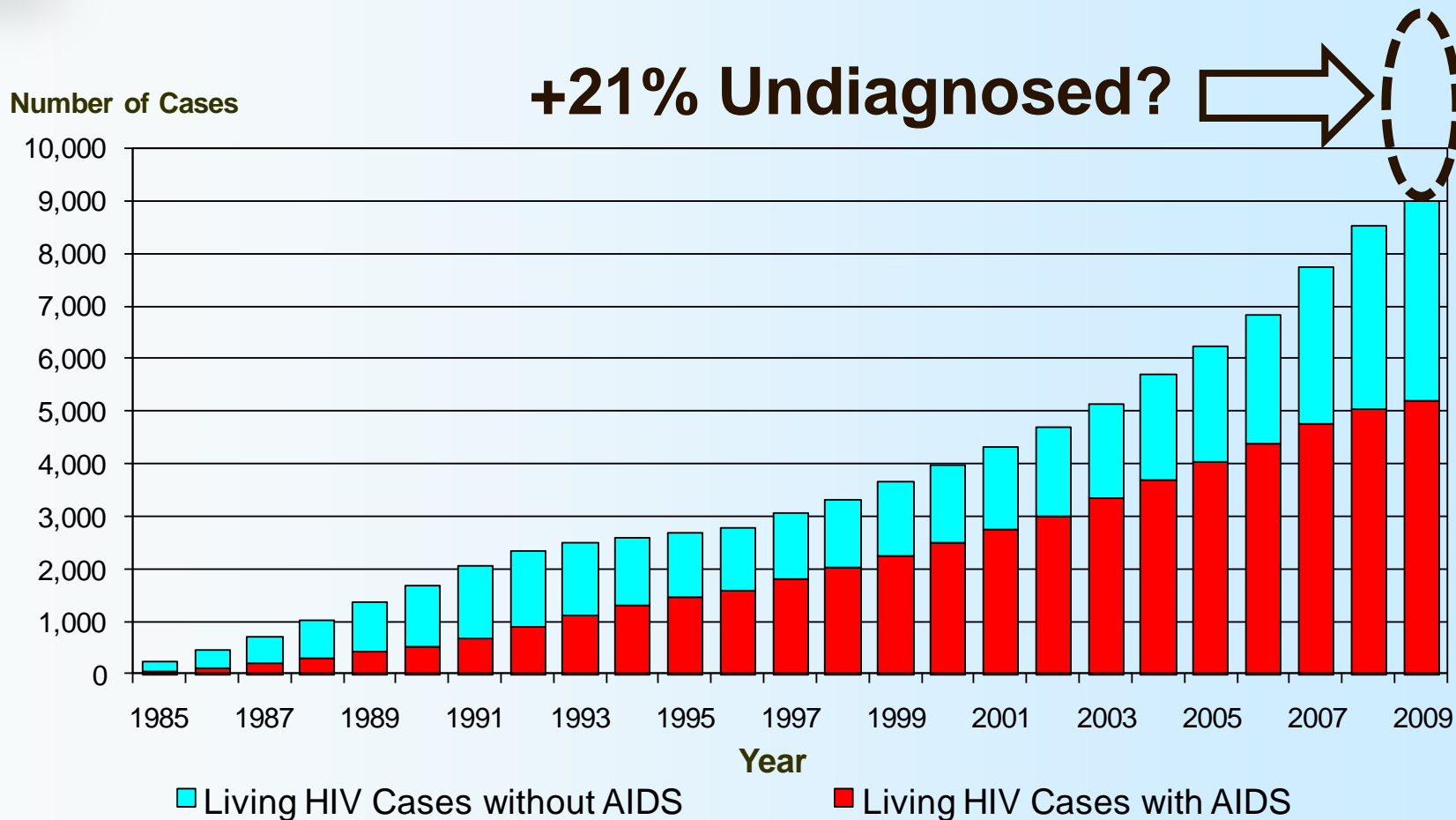
▲ Reported HIV Diagnoses ● Reported AIDS Diagnoses ■ Reported AIDS Deaths

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Living HIV Cases Washington MSA (MD)



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HIV Statistics

Washington MSA (Maryland)

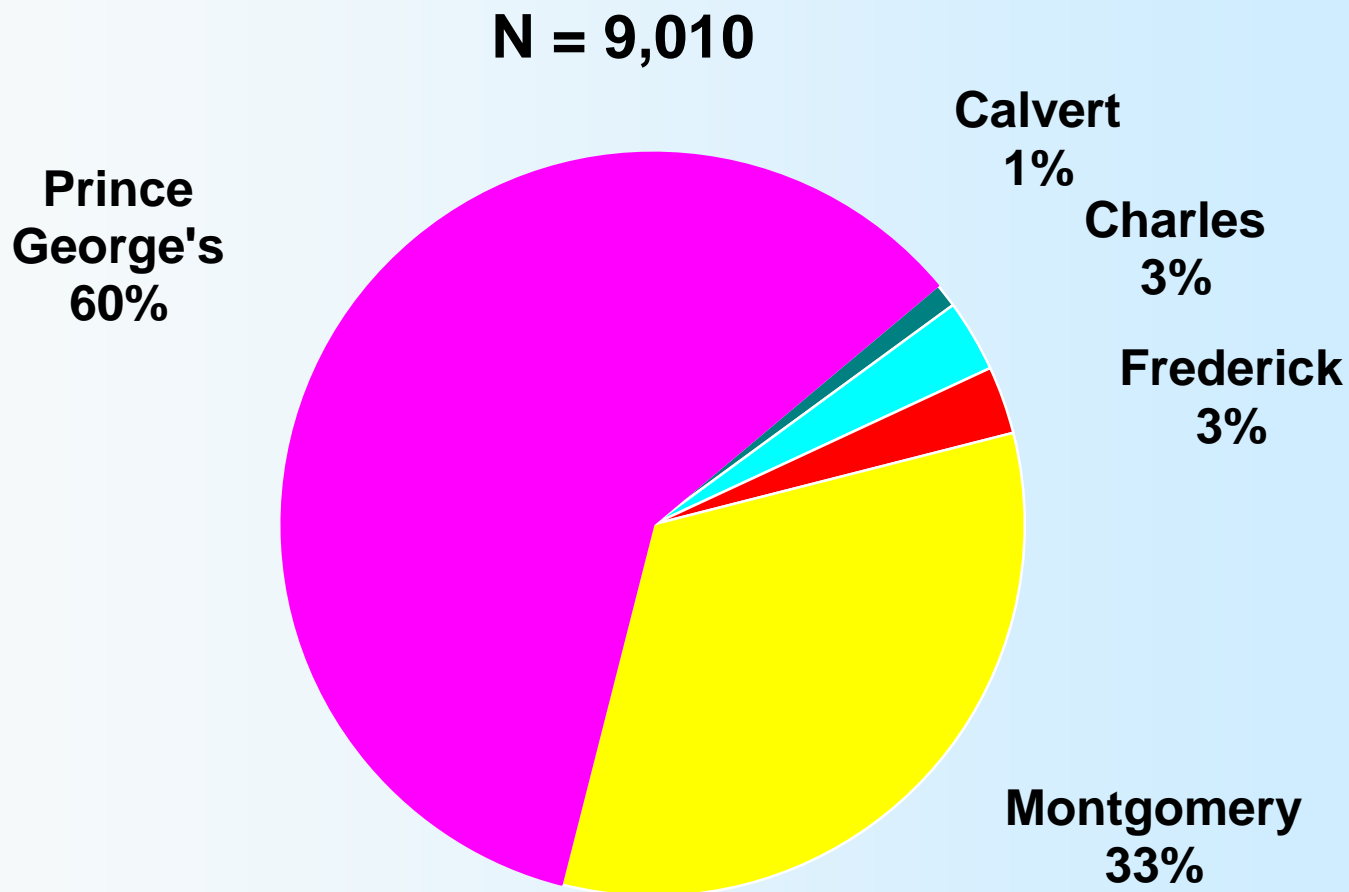
	Reported HIV Diagnoses during 2009	Living HIV Cases on 12/31/2009
Washington MSA (MD)	581	9,010
Calvert	4	95
Charles	27	282
Frederick	13	266
Montgomery	153	2,968
Prince George's	387	5,399

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Washington MSA (MD), Living HIV Cases by County, 12/31/09

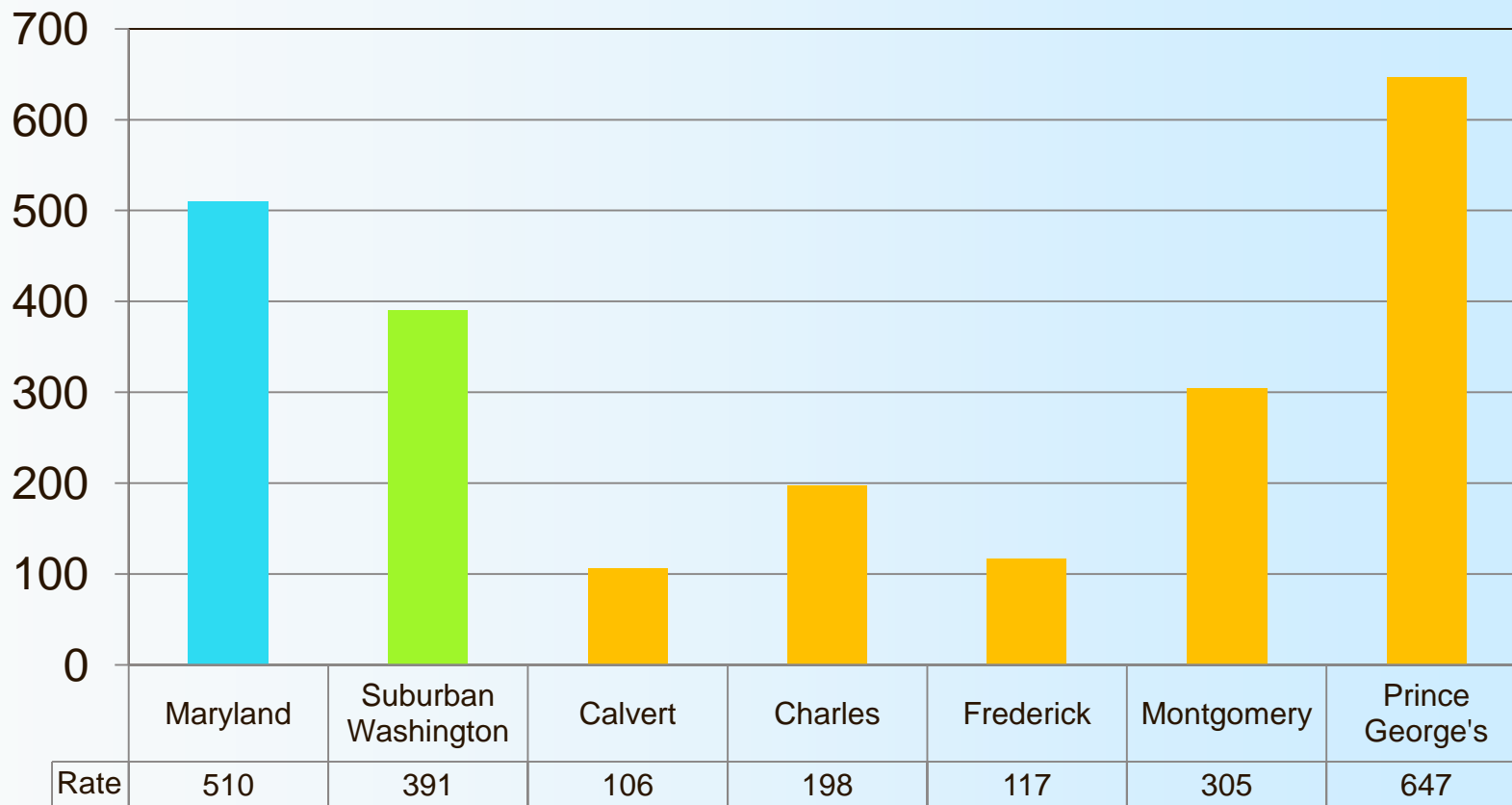


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Living HIV Cases Rates per 100,000 Population by County, Washington MSA (MD), 12/31/09

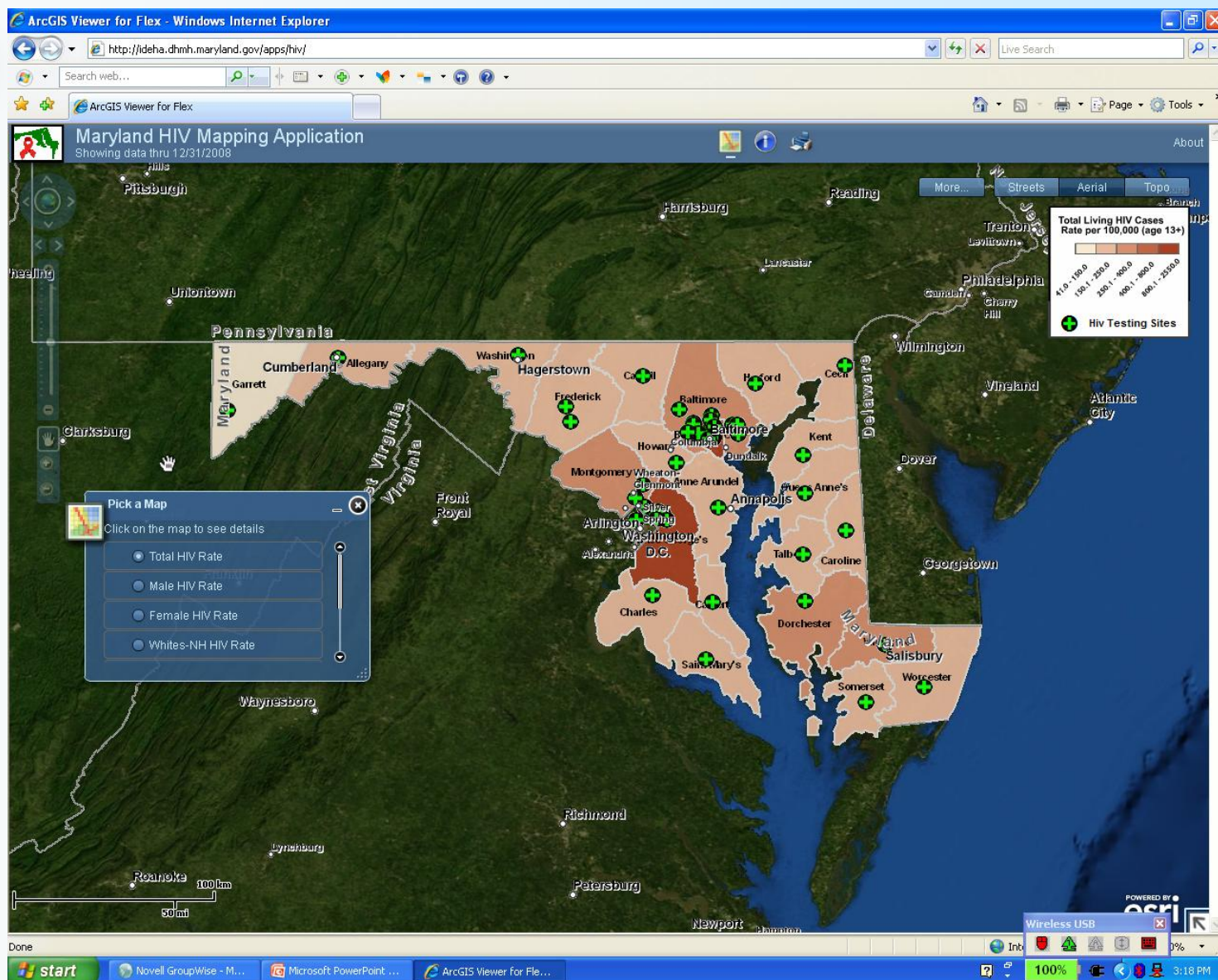


Population on 7/1/09. Cases on 12/31/09
as reported through 12/31/10

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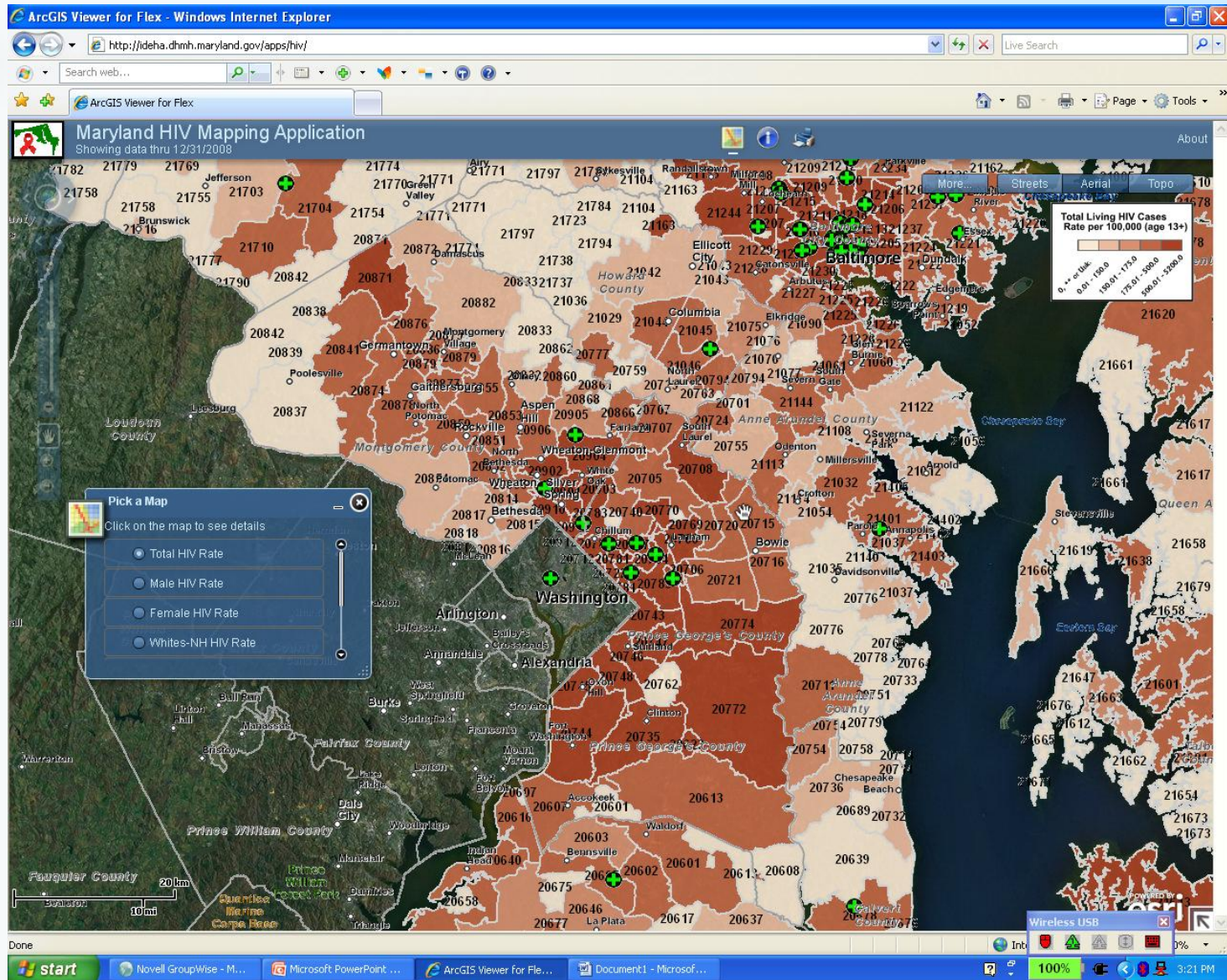


New HIV Mapping Tool



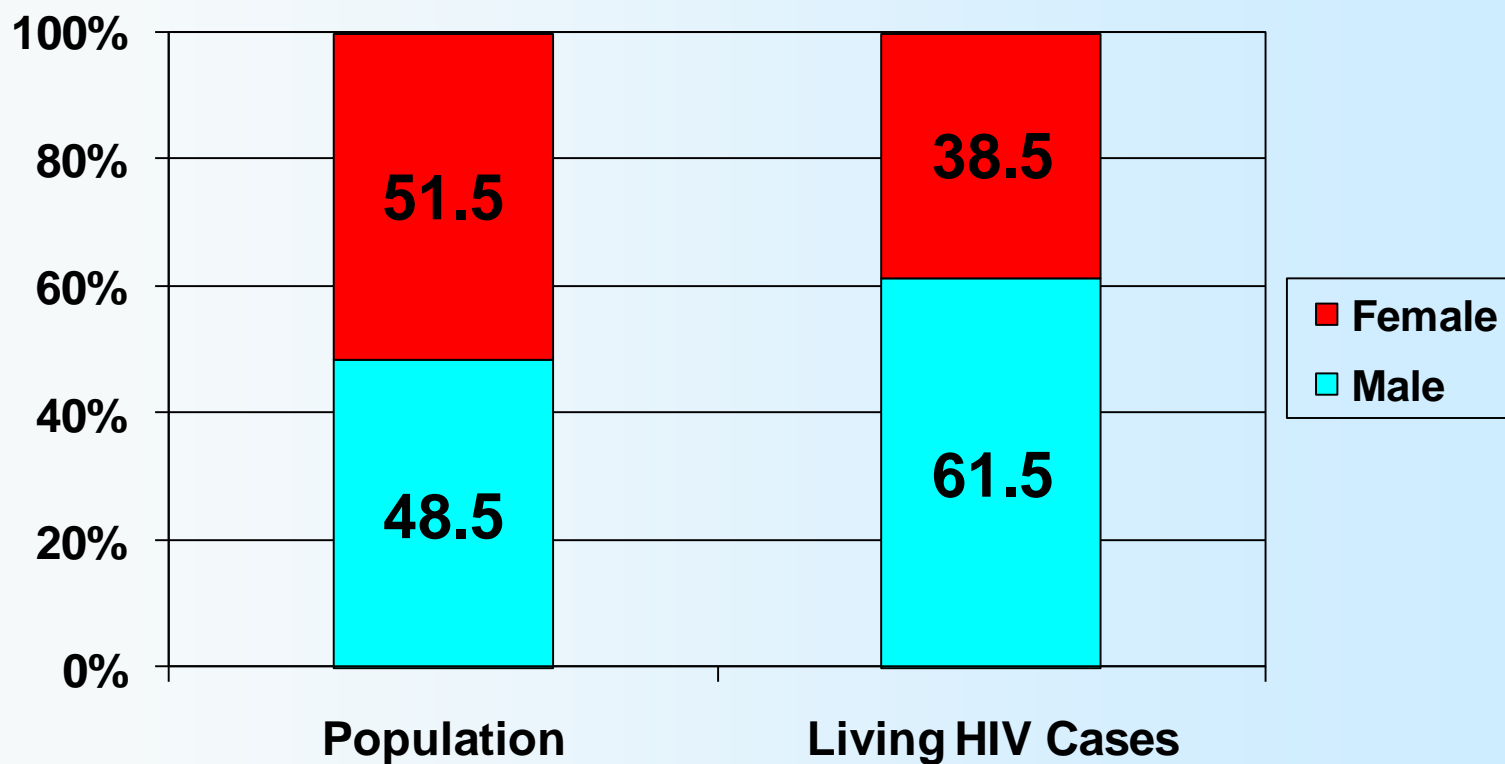


HIV Rates by ZIP Code





Population and Living HIV Cases by Sex, Washington MSA (MD)

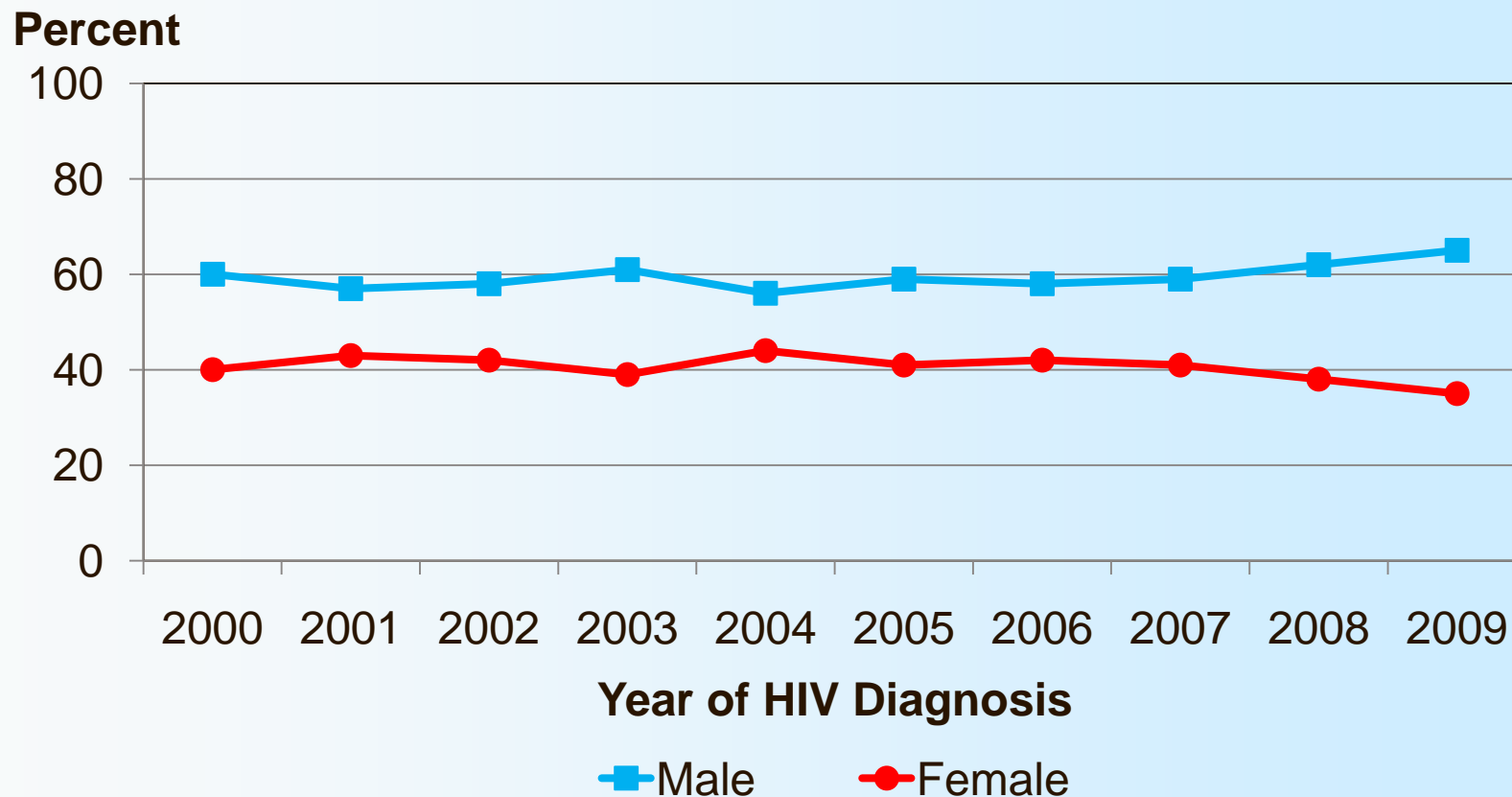


Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10

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Reported HIV Diagnosis Trends by Sex Washington MSA (MD)

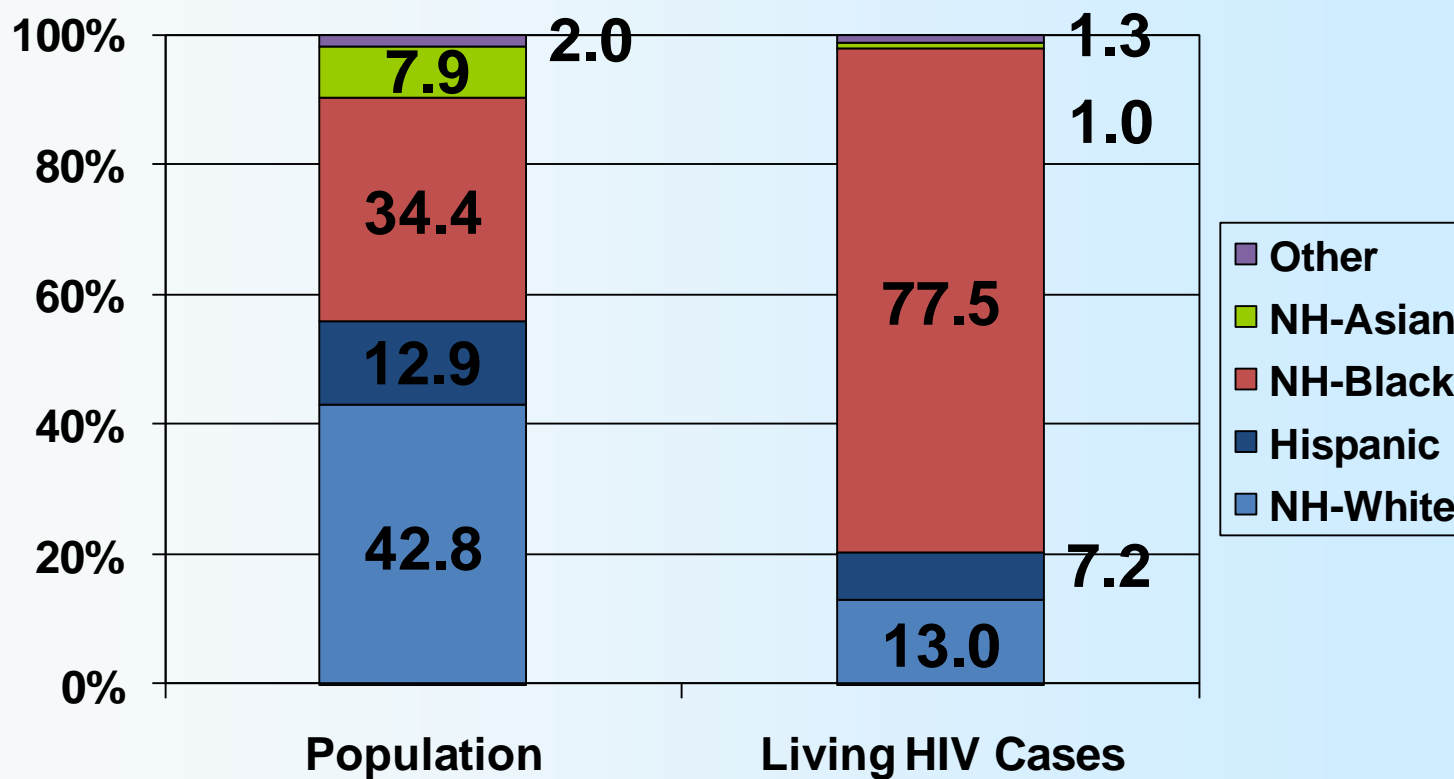


Using data as reported through 12/31/2010

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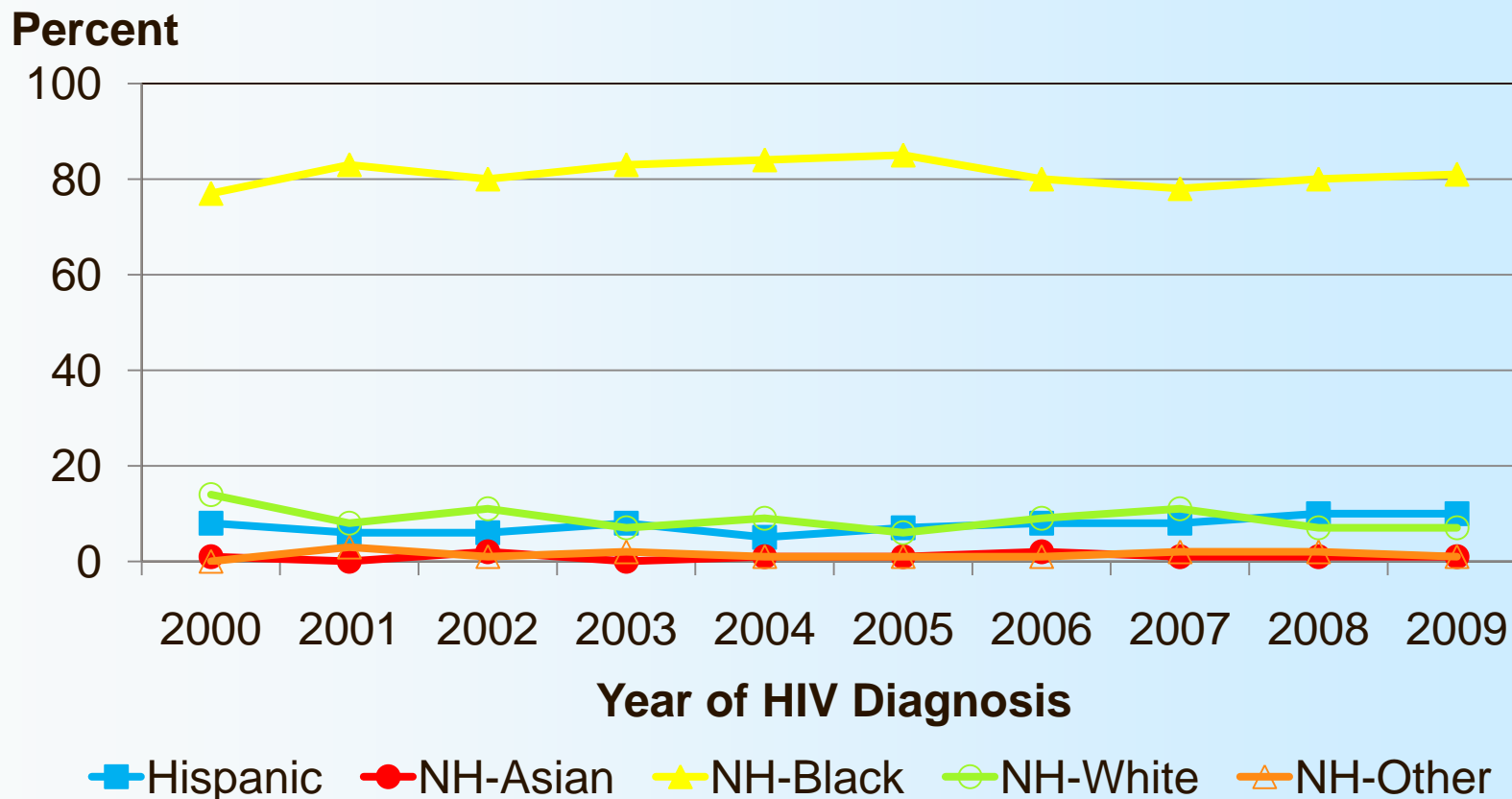
Population and Living HIV Cases by Race/Ethnicity Washington MSA (MD)



Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10



Reported HIV Diagnosis Trends by Race/Ethnicity Washington MSA (MD)



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Living HIV Cases on 12/31/09 by Country of Birth Washington MSA (MD)

	N	%
Total	9,010	100.0
United States	7,356	81.6
Cameroon	238	2.6
Ethiopia	167	1.9
El Salvador	109	1.2
Nigeria	57	0.6
Haiti	55	0.6
Guatemala	51	0.6
Kenya	50	0.6

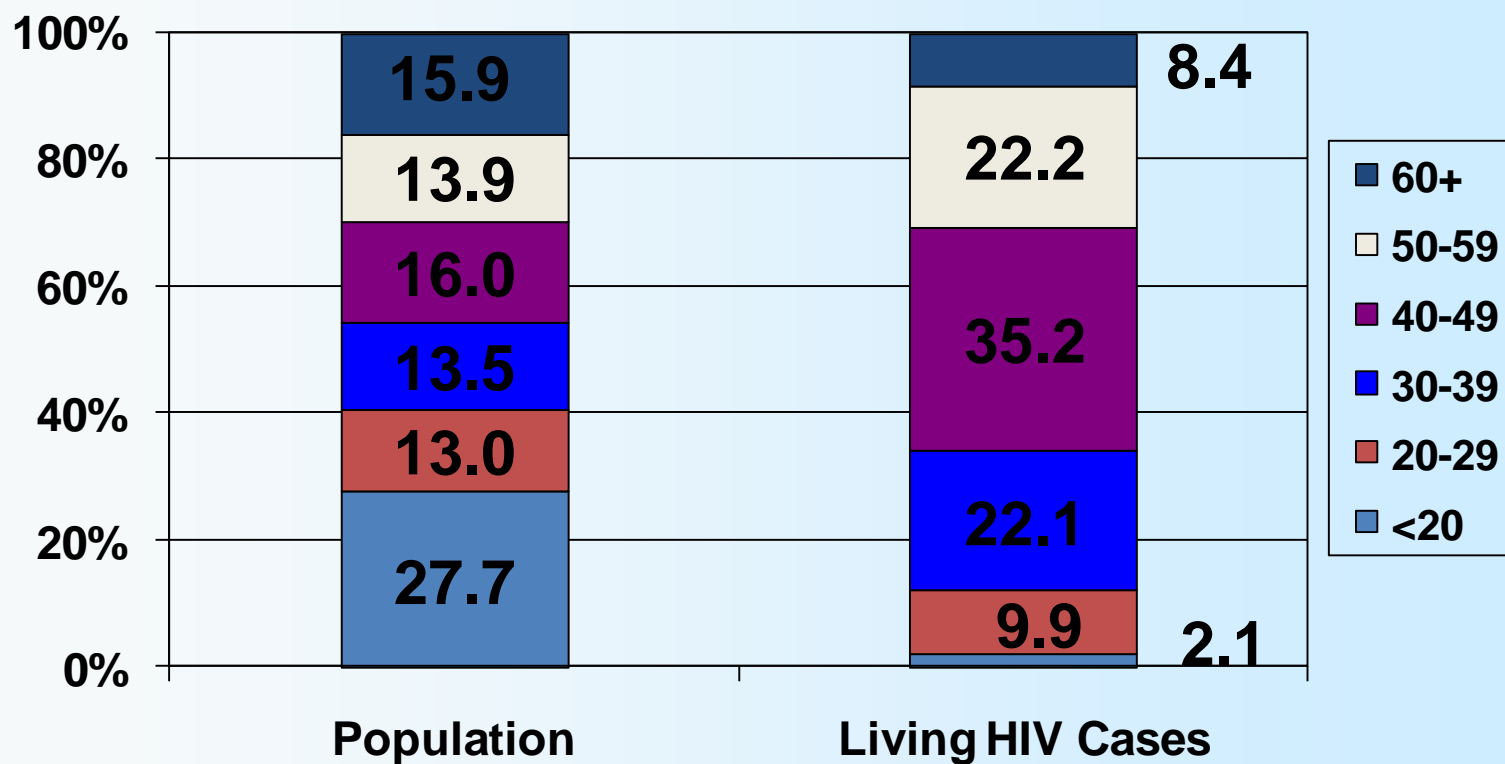
+ 92 other countries

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Population and Living HIV Cases by Age, Washington MSA (MD)

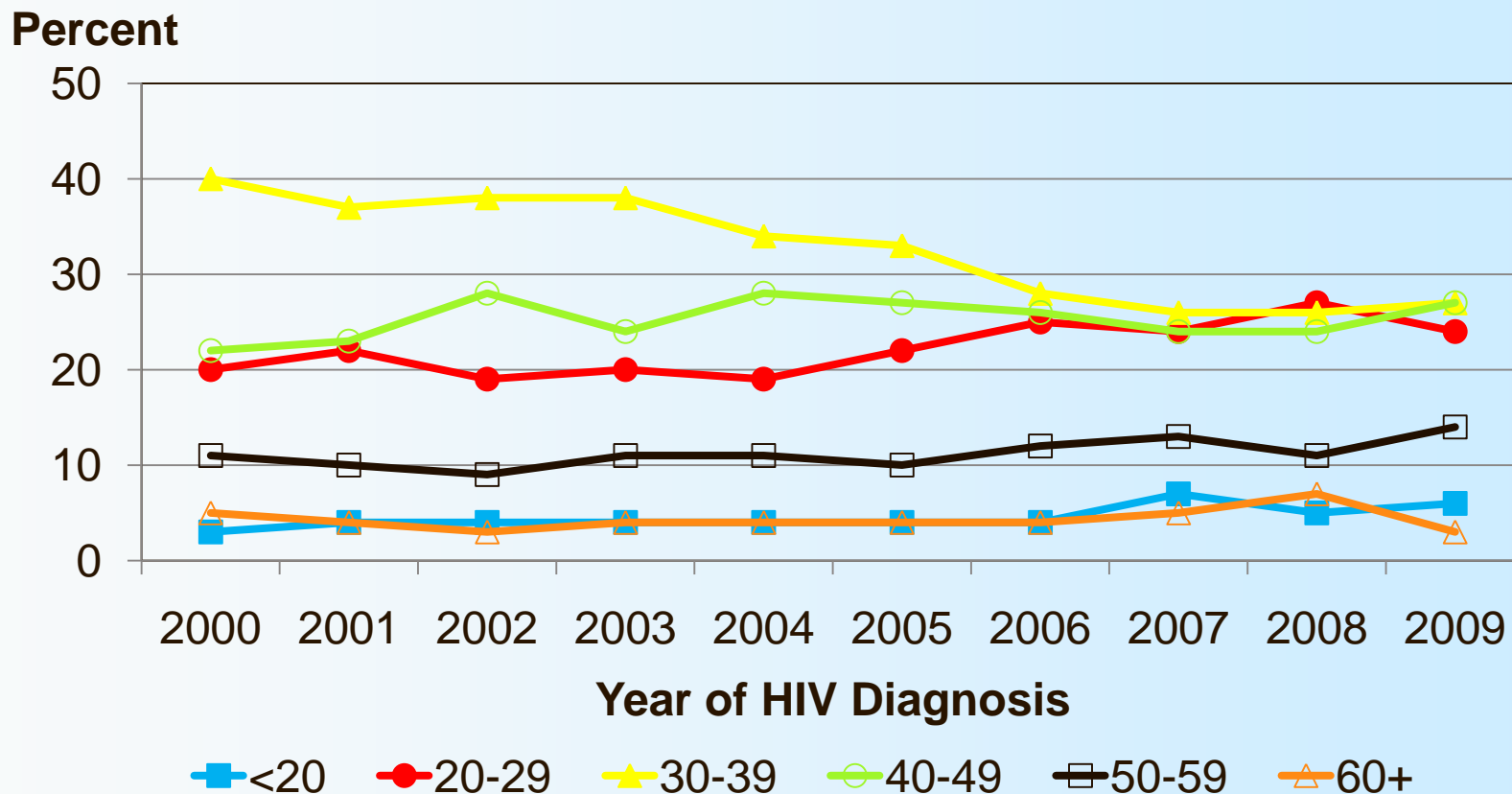


Population on 7/1/09, Cases on 12/31/09
as reported through 12/31/10

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Reported HIV Diagnosis Trends by Age at Diagnosis Washington MSA (MD)



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Risk Categories

MSM: Men who have Sex with Men

IDU: Injection Drug Use

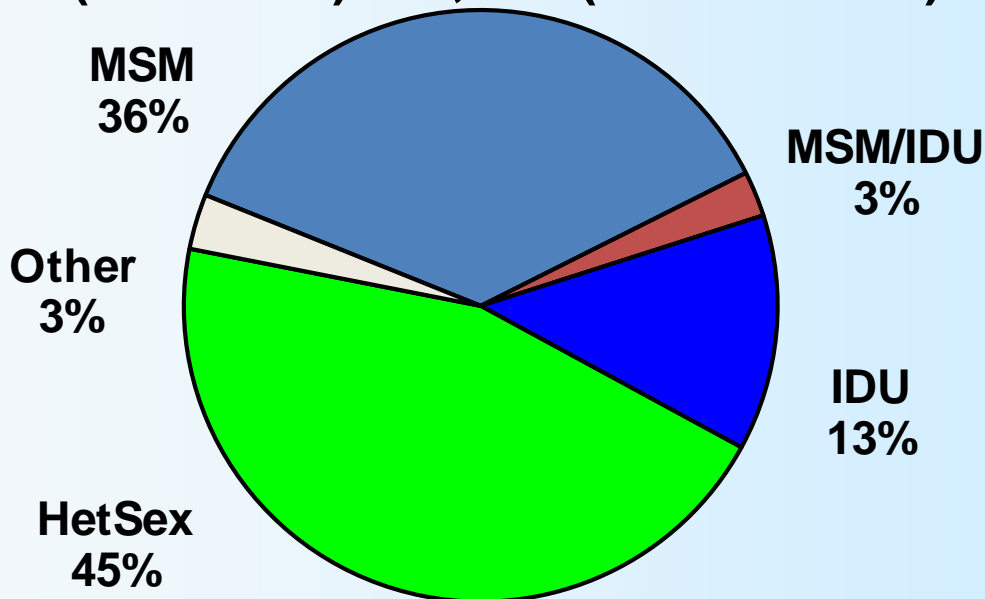
MSM/IDU: Men who have Sex with Men AND Inject Drugs

HetSex: Heterosexual Contact with a Person that has or is at Risk for HIV Infection



Living HIV Cases 12/31/09 by Exposure Category Washington MSA (Maryland)

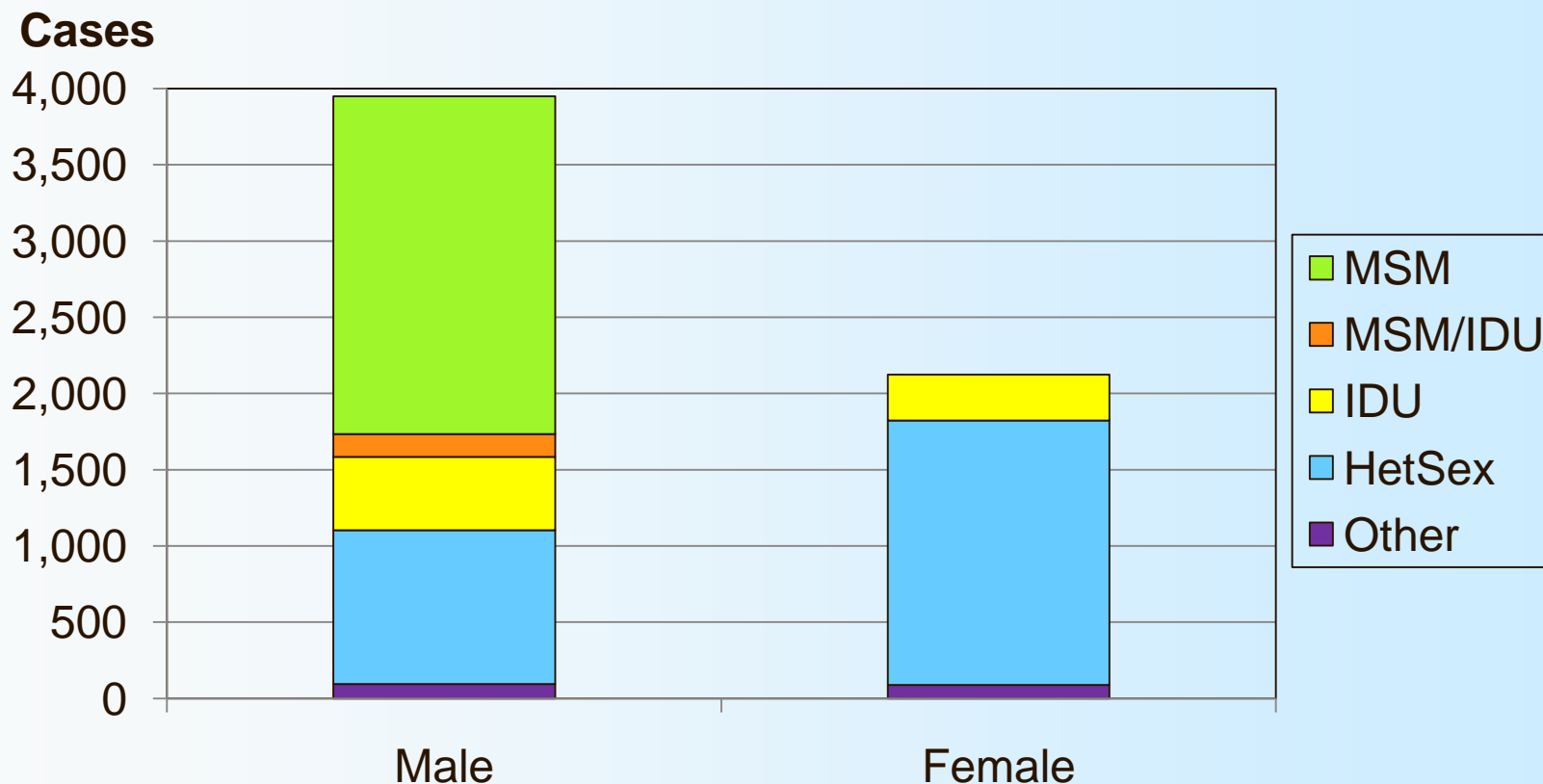
N (with Risk) = 6,074 (67% of Total)



Using data as reported through 12/31/2010



Living HIV Cases 12/31/09 by Risk and Sex at Birth Washington MSA (MD)

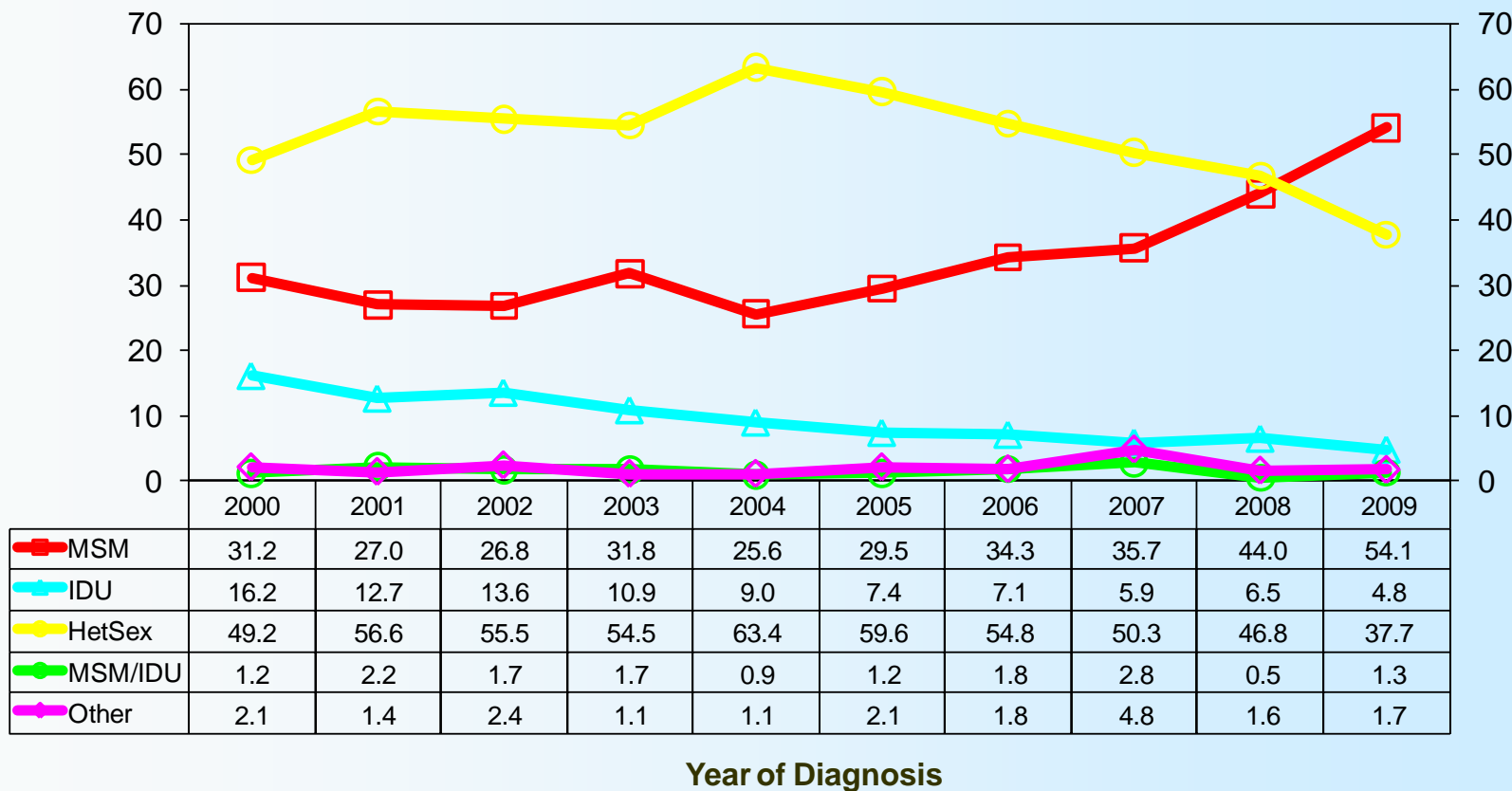


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Reported HIV Diagnoses Exposure Category Trends, Washington MSA (MD)

Percent



Using data as reported through 12/31/2010



2009 Reported Adult/Adolescent HIV Diagnoses (N=581) Washington MSA (Maryland)



- Linkage to Care: 56% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 60% had a CD4 test within 12 months of HIV diagnosis, and the median value was 265 cells/microliter
- Late HIV Diagnosis: 32% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2010



2009 Reported Adult/Adolescent AIDS Diagnoses (N=221) Washington MSA (Maryland)



- Progression: The average time from HIV diagnosis to AIDS diagnosis was 2.9 years
- Late HIV Diagnosis: 82% were diagnosed with AIDS within 12 months of their HIV diagnosis

Using data as reported through 12/31/2010



Regional Summary



HIV/AIDS in the Washington MSA (Maryland)



- There were 9,010 living HIV cases at the end of 2009 and 581 reported HIV diagnoses during 2009
- Prince George's County had the greatest share of cases (60%)
- Rates of living cases were two to six times higher in Prince George's than in the other counties
- HIV was being diagnosed late (32% late, median CD4 265), contributing to many AIDS diagnoses (82% had late HIV diagnosis)



HIV/AIDS in the Suburban Washington Region: Demographics



- Males were disproportionately affected (62% of cases vs. 48% of population), and the proportion male was increasing
- Non-Hispanic blacks were disproportionately affected (78% vs. 34%), but the proportion Hispanic, while small (7%), was increasing
- Persons 30-59 years old were disproportionately affected (80% vs. 43%), and proportions were increasing among 20-29 and 50-59 year olds while decreasing among 30-39 year olds



HIV/AIDS in the Suburban Washington Region: Transmission Risk



- Sexual transmission predominates (>81%)
 - Homosexual and heterosexual transmission among men
 - Heterosexual transmission among women
 - Male homosexual transmission proportion was increasing
 - Heterosexual transmission was decreasing
- Injection drug use is an important route of transmission (>13%), but proportion IDU was decreasing



New Epidemiological Products Coming to the New IDEHA Website

- New Epi Profiles for State, Regions, Counties
- New Indicators
 - Linkage to care
 - Late HIV diagnosis
 - CD4 counts at HIV diagnosis
 - Disease state: CD4 and VL levels for living cases
 - Progression: HIV to AIDS, AIDS to death
 - Presumed female heterosexual exposure category
- New HIV Mapping Tool
- New Query-able Database



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<http://ideha.dhmfh.maryland.gov/chse>